

PATENT ABSTRACTS OF JAPAN

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(54) PRODUCTION OF MULTIFACE HOLOGRAM ORIGINAL PLATE

(57)Abstract:

PURPOSE: To improve the reproducibility, facilitate the work, and reduce the cost at the time of copying a hologram by forming each hologram original plate part on a substrate without interposing an air layer between them but in a resin hardened by ultraviolet rays.

CONSTITUTION: A hologram original plate 1 is fixed in a resin layer 4 filled up with the resin hardened by ultraviolet rays, and a substrate 3 consisting of an ultraviolet transmissive material is held in the position facing the hologram original plate 1 by a holding means 5, and the space between the hologram original plate 1 and the substrate 3 is filled up with the resin hardened by ultraviolet rays, and the hologram original plate 1 and the substrate 3 are approximated up to a certain gap. The resin hardened by ultraviolet rays between the hologram original plate 1 and the substrate 3 is irradiated with ultraviolet rays through the substrate 3 by a ultraviolet light source, a light shielding mask 7, and a light shielding shutter 8 and is hardened to form a hologram original plate part 12 on the substrate 3. The number of hologram original plate parts 12 corresponding to the number of faces are formed on the substrate 3 in the same manner. Thus, the reproducibility is improved and the cost is reduced and the work is facilitated at the time of copying the hologram.

